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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Michael O. CERVENKA

Application No.: New U.S. Patent Application

Filed: April 23, 2004

Docket No.: 119479

For: COOLED NOZZLED GUIDE VANE OR TURBINE ROTOR BLADE PLATFORM

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- ☒ 2. The references were cited in a counterpart foreign application. An English language version of the foreign search report is attached for the Examiner's information.
- ☒ 3. The present application was filed or entered the U.S. National Stage of the PCT after June 30, 2003. In accordance with the June 11, 2003, Notice waiving the requirements of 37 CFR §1.98(a)(2)(i), copies of any U.S. patents and patent application publications are not attached.
- ☒ 4. An English-language Abstract of non-English language reference No. 5 is attached hereto.

- ☒ 5. A computer-generated English translation of the following Japanese Patent Publication has been obtained from the website of the Japanese Patent Office (<http://www.jpo.go.jp>), and is attached, but has not been reviewed for accuracy. See Reference 5.

Respectfully submitted,



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INVESTOR IN PEOPLE

Application No: GB 0312867.5  
Claims searched: 1-10

Examiner: Ross Maclachlan  
Date of search: 2 December 2003

## Patents Act 1977 : Search Report under Section 17

### Documents considered to be relevant:

Category	Relevant to claims	Identity of document and passage or figure of particular relevance	
X, Y	X: 1, 2, 7 and, 8 Y: 5, 6 and, 9	US 4040767 A	(United Technologies) Fig. 2 noting platform cavity 38 cooling pressure and suction walls through apertures 44 and exhausting to the vane cavity 28 through aperture 42. Also platform film cooling through apertures 36.
Y	Y: 5, 6 and 9	JP 110257003 A	(Mitsubishi) Figs. 2, 3 and 4 noting shroud cavity partitioned into two cavities using impingement plates. Appears to be fluid communication with blade.
Y	Y: 5 and, 6	EP 0937863 A2	(Mitsubishi) fig. 1(b) noting impinged chamber 2 film cooling platform pressure wall 5 and impinged chambers 3 and 4 cooling platform pressure wall 6.
A		US 6254333 B1	(United Technologies) fig. 5 noting suction side opening 82s and pressure side opening 82p to plenum 76 also in fluid communication with opening 152
A		US 6508620 B2	(Pratt and Whitney) Fig. 1 noting plenum 7 in fluid communication with blade passage 11 through aperture 20 and with inner platform wall 6, through impingement plate holes 16 and exhausting air vents 17
A		US 5344283 A	(United Technologies) figs. 3 and 4 noting platform pockets 92, 104 and 112 in fluid communication with blade cavities 88, 84 and 114 respectively.

### Categories:

X Document indicating lack of novelty or inventive step	A Document indicating technological background and/or state of the art.
Y Document indicating lack of inventive step if combined with one or more other documents of same category.	P Document published on or after the declared priority date but before the filing date of this invention.
& Member of the same patent family	E Patent document published on or after, but with priority date earlier than, the filing date of this application.

Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 119479		APPLICATION NO. New U.S. Patent Application	
INFORMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)				APPLICANT Michael O. CERVENKA			
				FILING DATE April 23, 2004			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	
	1	4,040,767	8/9/1977	DIERBERGER et al.			
	2	US 6,254,333 B1	7/3/2001	MERRY			
	3	US 6,508,620 B2	1/21/2003	SREEKANTH et al.			
	4	5,344,283	9/6/1994	MAGOWAN et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	
	5	JP A 11-257003 w/ Abst & Trans	9/21/1999	Japan			
	6	EP 0 937 863 A3	8/25/1999	Europe			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
EXAMINER					DATE CONSIDERED		
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Date: April 23, 2004